

ORGANIC ANALYTE - Tier III & IV Data Validation Summary Checklist

GOLDER PROJECT #: 073-93312.05		SITE: Avery Landing/ POTLATCH / Idaho	
LABORATORY: Test America		SDG: #SSI0046	
SAMPLES	Collect:	MATRIX	
01 G-GA1-21	8-26-09	SOIL BORINGS	
02 G-GA3-20	↓	↓	
04 GA-D2	↓	↓	
05 G-GA-D	9-08-09	WATER	
TRIP Blank			

DATA ASSESSMENT SUMMARY

REVIEW ITEM	VOA	BNA	Pest / PCB	TPH-Dx	PAH - SIM	OTHER	OTHER
1. Data Completeness	O	✓	O	O	O		
2. Preservation, Holding Times ①	X		O	X	X		
3. GC/MS Tune, Inst. Performance	O		O	O	O		
4. Calibrations	O		O	O	O		
5. Surrogates	O		O	O	O		
6. Internal Standards	O		O	O	O		
7. Lab Blanks, Field Blanks	O		O	O	O		
8. Lab Duplicates, Field Duplicates	O		O	O	O		
9. LCS, Blank Spike, MS/MSD	O		O	O	O		
10. Compound Identification, TICs	O		O	O	O		
11. Result Verification, D.Limits	O		O	O	O		
12. Overall Summary	O		O	O	O		

O = Data had no problems

Θ = Problems, but do not affect data

X = Data qualified due to minor problems [typically estimated data (J or UJ)].

M = Data qualified due to major problems [typically more than 50% qualified (J/UJ)].

Z = Data unacceptable [typically data rejected (R)].

Comments/Qualified Results: ① Hold times out for VOA, TPH-Dx & PAH for all samples. Results qualified (J/UJ). All dates are just one day past recommended hold time.

Confirmed
1-20-2010

① Cite new SW-846, Third Edition Update IV, Chapter 4, Section 4.1, Table 4-1.

Validated by:

[Signature]

Date: Nov. 10, 2009

Reviewed by:

Date:

ORGANIC ANALYTE - Tier III & IV Data Validation Summary Checklist

Acceptable:

YES/ NO

1. Date Package Completeness (Check if present).....

☒ ☐

- ☒ Case narrative
- ☒ Chain of Custody
- ☒ Sample Results
- ☒ Detection Limits
- ☒ GC/MS Tuning
- ☒ Initial Calibration
- ☒ Continuing Calib.

- ☒ Blank Results
- ☒ Surrogate Results
- ☒ Internal Standards
- ☒ MS/MSD, LCS Results
- ☒ Preparation Logs
- ☒ Analysis Run Logs
- ☒ Raw Data
- ☐ Other

- ☒ Acceptable
- ☒ Absent
- ☐ Not required for data package requested.

Comments/Qualified Results: _____

2. Holding Times (Check all that apply).....

☐



☐ Unpreserved VOA analyzed in 7 days from collection; Preserved 14 days from collection

☐ BNA samples extracted within 7 days (14 day soil) of collection

☐ BNA extracts analyzed within 40 days of collection

☒ Pest/PCBs samples extracted within 7 days (14 day soil) of collection - NO QUAL :

☐ Pest/PCBs extracts analyzed within 40 days of collection

Qualify as estimated (J/UJ) all results analyzed past hold time limits, but within 2X of the limit. Outside the 2X limit, qualify detects as (J) and non-detects as (UR).

Comments/Qualified Results: _____

⊗ TPH-Dx - 15 Days assoc. results J/ur

PCB - No Qual. 26 Days

⊗ PAHs - 15 Days assoc. Qual J/ur

⊗ VOA - 17 Days " " J/ur

3. GC Instrument Tune, Performance Check

☒

☐

☒ GC/MS Tuning performed

☐ GC/MS Tuning within control limits

☐ GC/MS Tuning out of control limits, (qualify R/UR)

☐ Res Chk Mix, MidPoint AB <60%, (J for detects, UR other)

☐ PEM resolution <90% adj pks, (J for detects, UR other)

☐ DDT, Endrin breakdown >20%, (J for DDD, DDT, Endrin, Endrin Aldehyde, Endrin Ketone, or NJ/R)

☐ Res Check Mix, MidPoint AB, TCMX, DCBP within RT windows from ICAL AB mixture (Fix or R/UR)

Comments/Qualified Results: _____

VOA 9/24, RRF # R², CCAL

PCB 9/16, RRF # R², CCAL

PAHs 9/13, Tune, RRF # RSD, R²

TPH-Dx 9/11, RRF

ORGANIC ANALYTE - Tier III & IV Data Validation Summary Checklist

Acceptable: Yes ☒ NO ☐

4. Initial & Continuing Calibration (Check all that apply).....



- GC/MS Data: ☐ ICal RRFs > 0.05 all cmpnds (If no, J/UR), [>0.01 for Poor Performers] VOA, SVOA
☐ ICal RSD of RRF < 30% all cmpnds (If no, J detects) [$<50\%$ for Poor Performers] VOA
☐ ICal RSD of RRF < 20.5% all cmpnds (If no, J detects) [$<50\%$ or $*30\%$ for Poor Performers] SVOA
 Note: *Applies to 2,4-DNT, 2-Nitrophenol, and 2,4-DMP only [SVOA].
☐ Continue Cal. +/- 30% Diff of RRF (If no, J/UJ) [+/- 50% Diff, Poor Performers] VOA, SVOA
☐ Continue Cal. %D < 25% all cmpnds (If no, J/UJ), VOA, SVOA
 Pesticide/PCB: ☐ RSD < 10% for performance checks (If no J detects)
☐ Stnds analyzed prior to analysis, & at proper frequency
☐ Continuing Cal. % Diff. < 15% for quant. (< 20% for confirm column)

See section (3). ICal & COAL

5. Surrogates (Check all that apply).....



- ☒ Surrogates analyzed
☒ Recoveries within Method Control (lab) limits (VOA: 80 – 120%, SVOA: Lab Established, PEST: 30-150%)
☐ Recoveries above Method Control limits (J detects only)
☐ Recoveries below Method Control limits but > 20% (J/UJ)
☐ Recoveries below 20%, 10% for PEST (J/UR for VOA, J/ UJ or UR for SVOA, J/UR for PEST)

Comments/Qualified Results

TPH-Dx ✓

PCB ✓

PAHs ✓

VOA - Trip Blank ✓

6. Internal Standards Performance.....



- ☐ Internal standards added to all QC and samples
☐ Internal standards areas within Control Limits* [$\pm 40\%$ VOA, $\pm 50\%$ SVOA]*
 *Associated with 12 Hour CCV Stnd.
☐ Internal standards out of Control limits but > 10% (J/UJ)
☐ Internal standards zero or < 10% of Control limits (J/UR)
☐ Internal standards RTs within +/- 20 sec window (If no, J/UJ)

Comments/Qualified Results:

ORGANIC ANALYTE - Tier III & IV Data Validation Summary Checklist

Acceptable: Yes ☒ NO ☐7. Laboratory Blanks, Field Blanks (Check all that apply)..... ☒ ☐

- ☐ Method Blanks, Prep. Blanks analyzed after Cal Stnds and every 12 hours
☐ Method Blank Common Lab Contaminants, list: MeCl₂, Cyclohex (<10X RLs); Acetone, 2-butanone (<2X RLs); Chart
☐ Other Contaminants: Qualify results (< 5X RL) according to Chart below.
☐ Instrument blanks after all high level samples, All cmpnds must be <RL

Examples:

Comments/Qualified Results: _____

NOA on Trip Blank =
MB50920 ✓ All ND.

PAHs MB0060 ✓

PCB MB 0142 ✓

TPH-Dx MB 0070 ✓

BLANK			SAMPLE	
MDL	Result	PQL	Result	Q Applied
0.3	0.45	1.0	0.8	1.0 U
0.3	0.99	1.0	1.8	1.8 J
0.3	1.5	1.0	1.1	1.5 U
0.3	1.5	1.0	1.8	1.8 J
0.3	0	1.0	0.85	0.85 J
0.3	0	1.0	1.8	1.8

8. Duplicate, Field Duplicates (Check all that apply)..... ☒ ☐

- ☐ Duplicate RPD ≤20% for waters (≤35% for soils) for results >5X CRDL
☐ Duplicate range is within ±CRDL (± 2X CRDL for soils) for results <5X CRDL
☐ Field duplicate RPD ≤20% (≤35% for soils)

Comments/Qualified Results _____

PAHs #0060 on MS/MSD non-assoc. ✓

PCB - MS/MSD RPD ✓

TPH-Dx ✓ non-assoc. Simpl.

9. MS/MSD, Lab Control Samples, Blank Spikes (Check all that apply)..... ☒ ☐

- ☒ LCS %R 80-120%
☒ LCS %R 50-79% or >120%, results >IDL estimated (J)
☐ LCS %R 50-79% and results <IDL estimated (UJ)
☐ LCS %R <50% and all results rejected (R/UR)

Comments/Qualified Results: _____

NOA LCS recovery: 1,2 dC Prep ↑ assoc.
detect qualif. (J) No Qual - No detect.

PAHs - 0060-BSI ✓, MS/MSD non-assoc. Simpl. ✓

PCBs #0142 LCS ✓, MS/MSD on Simpl. 0.5 ✓ for A 1016, 1260.

TPH-Dx - #0070 LCS ✓, MS sample non-assoc. ✓

ORGANIC ANALYTE - Tier III & IV Data Validation Summary Checklist

Acceptable: **Yes** **NO**

10. Compound Identification, TICs..... ☒ ☐

Comments/Qualified Results: _____

11. Result Verification, Detection Limits ☒ ☐

☐ All results supported in raw data
☐ Detection Limits appropriate to meet project needs (Review Work Plan, QAPP)

Comments/Qualified Results: _____

12. Overall Assessment..... ☒ ☐

Comments/Qualified Results: _____

Data Deliverable Package

Golder Associates, Inc.
Doug Morell
18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project: Avery Landing

Project Number: 073-93312-03

Laboratory Work Order: SSI0046

November 9, 2009

Total Pages
794

TestAmerica-Spokane
11922 E. 1st Avenue
Spokane, WA 99206

Phone: (509) 924-9200
Fax: (509) 924-9290

CASE NARRATIVE

Client: TestAmerica Laboratories, Inc

Project: SSI0046

Report Number: 580-15384-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 09/11/2009; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample 580-15384-1 was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared and analyzed on 09/25/2009.

1,2-Dichloropropane failed the recovery criteria high for LCS 580-50920/2-A. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

CASE NARRATIVE

Client:	Golder Associates, Inc.	Date Sampled:	9/8/2009 to 8/26/2009
Project:	Avery Landing 073-93312-03	Date Received:	9/9/2009
Lab:	SSI0046		
NJDEP#:	PA004		

SAMPLE RECEIPT: Samples were received intact, on ice, with custody seals and chain of custody documentation. The Cooler(s) were received and the sample temperature(s) were measured at 7.2° C upon receipt at the laboratory.

HOLDING TIMES: The sample analysis for SSI0046-02 in batch 50920 by 8260B was performed past method-specified holding time.

Samples SSI0046-01, -03, -04 and -05 in batch 9090060 by EPA 8270 mod. were extracted past the holding time.

Sample SSI0046-01, -03, -04 and -05 in batch 9090070 by NWTPH-Dx was extracted past the holding time.

As per EPA SW846 revision 4 the holding time for 8082 PCB analysis is one year from collection.

**PROBLEMS
ENCOUNTERED:** No problems were encountered.

QA/QC CRITERIA: Due to sample matrix effects in sample 9090060-MS1, the surrogate recovery was below the acceptance limits in batch 9090060 EPA 8270 mod..

The Fluorene recovery in samples 9090060-MS1 was below the acceptance limits for EPA 8270 mod., batch 9090060. See Blank Spike (LCS)..

The Fluorene RPD for sample 9090060-MSD1 in batch 9090060 for EPA 8270 mod. exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.

Due to sample matrix effects in sample 9090060-MSD1 batch 9090060 by EPA 8270 mod., the Nitrobenzene-d5 recovery was outside the acceptance limits.

Due to high levels of analyte in the sample, the MS/MSD calculation does

CASE NARRATIVE

Client:	Golder Associates, Inc.	Date Sampled:	9/8/2009 to 8/26/2009
Project:	Avery Landing 073-93312-03	Date Received:	9/9/2009
Lab:	SSI0046		
NJDEP#:	PA004		

not provide useful spike recovery information for batch 9090070 by NWTPH-Dx. See Blank Spike (LCS).

OBSERVATIONS: No significant observations were made.

SUBCONTRACTED: EPA 8260B was subcontracted to the TestAmerica Tacoma laboratory.

TestAmerica Spokane

Randee Decker
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-428-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

CLIENT: GOLDER ASSOC. INC		INVOICE TO: ← Same		Work Order #: SSJ0046	
REPORT TO: Douglas Morehl		E.O. NUMBER:		TURNAROUND REQUEST In Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 7 5 4 3 2 1 <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 3 2 1 <1 OTHER Specify:	
ADDRESS: 18308 Union Hill Rd, Suite 200 Redmond WA					
PHONE: 425-883-0777 FAX: ←		PRESERVATIVE		* Turnaround Requests less than standard may incur Rush Charges. MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID	
PROJECT NAME: Avery Lender		REQUESTED ANALYSES			
PROJECT NUMBER: 083-93312					
SAMPLED BY: A. COTE					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPA 8270C SING W/TPH	PK	EPA 8082 VOC	
G-GA1-24-082609	082609/8:15	X	X	X	
2 Trip Blank		X	X	X	X
G-GA3-20-082609	082609/1500	X	X	X	
G-GA-D2-082609	082609/10:00	X	X	X	
G-GA-D-082609	082609/3:15	X	X	X	
6					
7					
8					
9					
10					
RELEASED BY: Amade Cote	FIRM: GAI	DATE: 090809	TIME: 3:15	RECEIVED BY: C. Hannon	DATE: 9/9/09
PRINT NAME: Amade Cote				PRINT NAME: C. Hannon	TIME: 1100
RELEASED BY:		DATE:	TIME:	RECEIVED BY:	DATE:
PRINT NAME:				PRINT NAME:	TIME:
ADDITIONAL REMARKS: EPA 8270C inc. naphthalene, 1-methylnaphthalene & 2-methylnaphthalene					

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244
11922 E. First Ave, Spokane, WA 99206-5302
9405 SW Nimbus Ave, Beaverton, OR 97008-7145
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210
509-924-9200 FAX 924-9290
503-906-9200 FAX 906-9210
907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

CLIENT: <u>GOLDER ASSOC. INC</u> REPORT TO: <u>Douglas Morelli</u> ADDRESS: <u>18308 Union Hill Rd, Suite 200</u> <u>Redmond, WA</u> PHONE: <u>425-883-0777</u> FAX: <u></u> PROJECT NAME: <u>Avery Lending</u> PROJECT NUMBER: <u>083-93312</u> SAMPLED BY: <u>A. COTE</u>		INVOICE TO: <u>Same</u> P.O. NUMBER:		Work Order #: <u>SS10046</u> TURNAROUND REQUEST In Business Days * <div style="display: flex; justify-content: space-around;"> <div> <input checked="" type="checkbox"/> 10 STP </div> <div> <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 </div> </div> <div style="display: flex; justify-content: space-around;"> <div> <input checked="" type="checkbox"/> STD </div> <div> <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 </div> </div> <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> OTHER Specify: </div> <p style="font-size: small;">* Turnaround Requests less than standard may incur Rush Charges.</p>	
		PRESERVATIVE			
		REQUESTED ANALYSES			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPA 8270C	EPA 8270C SW	NAPTH-4-DK	EPA 8082
1 G-GA1-21-082609	082609/3:15	X	X	X	
2 Trip Blank		X	X	X	
3 G-GA3-20-082609	082609/1630	X	X	X	
4 GA-D2-082609	082609/10:00	X	X	X	
5 G-GA-D-082609	082609/3:15	X	X	X	
6					
7					
8					
9					
10					

RELEASED BY: <u>[Signature]</u> PRINT NAME: <u>Amade COTE</u> FIRM: <u>GAT</u>	DATE: <u>090809</u> TIME: <u>3:15</u>	RECEIVED BY: <u>[Signature]</u> PRINT NAME: <u>C. Haroon</u> FIRM: <u>TestAmerica</u>	DATE: <u>9/9/09</u> TIME: <u>1100</u>
RELEASED BY: PRINT NAME: FIRM:	DATE: TIME:	RECEIVED BY: PRINT NAME: FIRM:	DATE: TIME:

ADDITIONAL REMARKS:
EPA 8270C inc. naphthalene, 1-methylnaphthalene & 2-methylnaphthalene

TEMP: 7.2 PAGE 1 OF 1
TAL-1000(0408)

Test America Cooler Receipt Form

WORK ORDER # 8810046 CLIENT: Golder PROJECT: Avery

Date /Time Cooler Arrived 9/9/09 11 00 Cooler signed for by: C. Hansen
(Print name)

Preliminary Examination Phase:

Date cooler opened: ☒ same as date received or / /

Cooler opened by (print) C. Hansen (sign) [Signature]

1. Delivered by ☐ ALASKA AIRLINES ☒ Fed-Ex ☐ UPS ☐ NAC ☐ LYNDEN ☐ CLIENT ☐ Other:

Shipment Tracking # if applicable (include copy of shipping papers in file)

2. Number of Custody Seals 0 Signed by Date / /

Were custody seals unbroken and intact on arrival? ☐ Yes ☒ No

3. Were custody papers sealed in a plastic bag? ☒ Yes ☐ No

4. Were custody papers filled out properly (ink, signed, etc.)? ☒ Yes ☐ No

5. Did you sign the custody papers in the appropriate place? ☒ Yes ☐ No

6. Was ice used? ☒ Yes ☐ No Type of ice: ☐ blue ice ☐ gel ice ☒ real ice ☐ dry ice Condition of Ice melting

Temperature by IR Gun 7.2 °C Thermometer Serial # 81500

Acceptance Criteria: 0 - 6°C

7. Packing in Cooler: ☒ bubble wrap ☐ styrofoam ☐ cardboard ☐ Other: Bubble Bags

8. Did samples arrive in plastic bags? ☐ Yes ☒ No

9. Did all bottles arrive unbroken, and with labels in good condition? ☒ Yes ☐ No

10. Are all bottle labels complete (ID, date, time, etc.) ☒ Yes ☐ No

11. Do bottle labels and Chain of Custody agree? ☒ Yes ☐ No

12. Are the containers and preservatives correct for the tests indicated? ☒ Yes ☐ No

13. Is there adequate volume for the tests requested? ☒ Yes ☐ No

14. Were VOA vials free of bubbles? ☒ N/A ☐ Yes ☐ No

If "No" which containers contained "head space" or bubbles?

Log-in Phase:

Date of sample log-in 9/9/09

Samples logged in by (print) C. Hansen (sign) [Signature]

1. Was project identifiable from custody papers? ☒ Yes ☐ No

2. Do Turn Around Times and Due Dates agree? ☒ Yes ☐ No

3. Was the Project Manager notified of status? ☒ Yes ☐ No

4. Was the Lab notified of status? ☒ Yes ☐ No

5. Was the COC scanned and copied? ☒ Yes ☐ No

Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G-GA1-21-082609	SSI0046-01	Soil	08/26/09 15:15	09/09/09 11:00
Trip Blank	SSI0046-02	Other (S)	09/08/09 00:00	09/09/09 11:00
G-GA3-20-082608	SSI0046-03	Soil	08/26/09 10:00	09/09/09 11:00
GA-D2-082609	SSI0046-04	Soil	08/26/09 10:00	09/09/09 11:00
G-GA-D-082609	SSI0046-05	Soil	08/26/09 15:15	09/09/09 11:00



Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Semivolatile Petroleum Products by NWTPH-Dx

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil					Sampled: 08/26/09 15:15			H8
Diesel Range Hydrocarbons	NWTPH-Dx	37.1	J	11.2	mg/kg dry	1x	9090070	09/10/09 14:30	09/13/09 18:59	
Heavy Oil Range Hydrocarbons	"	73.0	J	28.1	"	"	"	"	"	
Surrogate(s): 2-FBP		96.9%			50 - 150 %	"			"	
p-Terphenyl-d14		119%			50 - 150 %	"			"	
SSI0046-03 (G-GA3-20-082608)		Soil					Sampled: 08/26/09 10:00			H8
Diesel Range Hydrocarbons	NWTPH-Dx	22.9	J	11.4	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 20:59	
Heavy Oil Range Hydrocarbons	"	70.7	J	28.5	"	"	"	"	"	
Surrogate(s): 2-FBP		93.0%			50 - 150 %	"			"	
p-Terphenyl-d14		125%			50 - 150 %	"			"	
SSI0046-04 (GA-D2-082609)		Soil					Sampled: 08/26/09 10:00			H8
Diesel Range Hydrocarbons	NWTPH-Dx	39.4	J	11.3	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 21:23	
Heavy Oil Range Hydrocarbons	"	119	J	28.2	"	"	"	"	"	
Surrogate(s): 2-FBP		95.2%			50 - 150 %	"			"	
p-Terphenyl-d14		123%			50 - 150 %	"			"	
SSI0046-05 (G-GA-D-082609)		Soil					Sampled: 08/26/09 15:15			H8
Diesel Range Hydrocarbons	NWTPH-Dx	50.1	J	11.2	mg/kg dry	1x	9090070	09/10/09 14:30	09/16/09 21:46	
Heavy Oil Range Hydrocarbons	"	88.1	J	28.1	"	"	"	"	"	
Surrogate(s): 2-FBP		87.1%			50 - 150 %	"			"	
p-Terphenyl-d14		111%			50 - 150 %	"			"	

Golder Associates, Inc.

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Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil		Sampled: 08/26/09 15:15						
PCB-1016	EPA 8082	ND	----	9.89	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 09:18	
PCB-1221	"	ND	----	9.89	"	"	"	"	"	
PCB-1232	"	ND	----	9.89	"	"	"	"	"	
PCB-1242	"	ND	----	9.89	"	"	"	"	"	
PCB-1248	"	ND	----	9.89	"	"	"	"	"	
PCB-1254	"	ND	----	9.89	"	"	"	"	"	
PCB-1260	"	ND	----	9.89	"	"	"	"	"	
Surrogate(s): TCX		89.0%		27.9 - 154 %		"		"		
Decachlorobiphenyl		71.7%		35 - 157 %		"		"		
SSI0046-03 (G-GA3-20-082608)		Soil		Sampled: 08/26/09 10:00						
PCB-1016	EPA 8082	ND	----	9.59	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 09:41	
PCB-1221	"	ND	----	9.59	"	"	"	"	"	
PCB-1232	"	ND	----	9.59	"	"	"	"	"	
PCB-1242	"	ND	----	9.59	"	"	"	"	"	
PCB-1248	"	ND	----	9.59	"	"	"	"	"	
PCB-1254	"	ND	----	9.59	"	"	"	"	"	
PCB-1260	"	ND	----	9.59	"	"	"	"	"	
Surrogate(s): TCX		95.7%		27.9 - 154 %		"		"		
Decachlorobiphenyl		73.0%		35 - 157 %		"		"		
SSI0046-04 (GA-D2-082609)		Soil		Sampled: 08/26/09 10:00						
PCB-1016	EPA 8082	ND	----	9.93	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 10:03	
PCB-1221	"	ND	----	9.93	"	"	"	"	"	
PCB-1232	"	ND	----	9.93	"	"	"	"	"	
PCB-1242	"	ND	----	9.93	"	"	"	"	"	
PCB-1248	"	ND	----	9.93	"	"	"	"	"	
PCB-1254	"	ND	----	9.93	"	"	"	"	"	
PCB-1260	"	ND	----	9.93	"	"	"	"	"	
Surrogate(s): TCX		88.4%		27.9 - 154 %		"		"		
Decachlorobiphenyl		71.1%		35 - 157 %		"		"		

Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polychlorinated Biphenyls by EPA Method 8082

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-05 (G-GA-D-082609)		Soil		Sampled: 08/26/09 15:15						
PCB-1016	EPA 8082	ND	---	9.89	ug/kg dry	1x	9090142	09/21/09 14:51	09/24/09 10:26	
PCB-1221	"	ND	---	9.89	"	"	"	"	"	
PCB-1232	"	ND	---	9.89	"	"	"	"	"	
PCB-1242	"	ND	---	9.89	"	"	"	"	"	
PCB-1248	"	ND	---	9.89	"	"	"	"	"	
PCB-1254	"	ND	---	9.89	"	"	"	"	"	
PCB-1260	"	ND	---	9.89	"	"	"	"	"	
Surrogate(s): TCX		68.0%		27.9 - 154 %		"		"		
Decachlorobiphenyl		60.5%		35 - 157 %		"		"		

Golder Associates, Inc.

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Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil <i>Q</i>					Sampled: 08/26/09 15:15			H8
1-Methylnaphthalene	EPA 8270 mod.	ND <i>UJ</i>	---	0.00449	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:34	
2-Methylnaphthalene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Acenaphthene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Acenaphthylene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Anthracene	"	0.00499 <i>J</i>	---	0.00449	"	"	"	"	"	
Benzo (a) anthracene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Benzo (a) pyrene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Benzo (ghi) perylene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Chrysene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Fluoranthene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Fluorene	"	0.00499 <i>J</i>	---	0.00449	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Naphthalene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Phenanthrene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Pyrene	"	ND <i>UJ</i>	---	0.00449	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		76.0%		38.8 - 139 %	"					
2-FBP		84.2%		40 - 132 %	"					
p-Terphenyl-d14		98.6%		31.7 - 179 %	"					

SSI0046-03 (G-GA3-20-082608)		Soil <i>Q</i>					Sampled: 08/26/09 10:00			H8
1-Methylnaphthalene	EPA 8270 mod.	ND <i>UJ</i>	---	0.00457	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:12	
2-Methylnaphthalene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Acenaphthene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Acenaphthylene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Anthracene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Benzo (a) anthracene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Benzo (a) pyrene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Benzo (ghi) perylene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Chrysene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Fluoranthene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Fluorene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND <i>UJ</i>	---	0.00457	"	"	"	"	"	

TestAmerica Spokane

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Randee Decker
Randee Decker, Project Manager

Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-03 (G-GA3-20-082608)		Soil					Sampled: 08/26/09 10:00			H8
Naphthalene	EPA 8270 mod.	ND <i>US</i>	---	0.00457	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 20:12	
Phenanthrene	"	ND <i>↓</i>	---	0.00457	"	"	"	"	"	
Pyrene	"	ND <i>↓</i>	---	0.00457	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		71.8%			38.8 - 139 %	"			"	
2-FBP		74.6%			40 - 132 %	"			"	
p-Terphenyl-d14		87.4%			31.7 - 179 %	"			"	

SSI0046-04 (GA-D2-082609)		Soil <i>G</i>					Sampled: 08/26/09 10:00			H8
1-Methylnaphthalene	EPA 8270 mod.	ND <i>US</i>	---	0.00451	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 19:51	
2-Methylnaphthalene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Acenaphthene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Acenaphthylene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Anthracene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Benzo (a) anthracene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Benzo (a) pyrene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Benzo (ghi) perylene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Chrysene	"	0.00652 <i>J</i>	---	0.00451	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND <i>US</i>	---	0.00451	"	"	"	"	"	
Fluoranthene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Fluorene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Naphthalene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Phenanthrene	"	ND <i>↓</i>	---	0.00451	"	"	"	"	"	
Pyrene	"	0.00752 <i>J</i>	---	0.00451	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		69.8%			38.8 - 139 %	"			"	
2-FBP		76.8%			40 - 132 %	"			"	
p-Terphenyl-d14		87.6%			31.7 - 179 %	"			"	

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Project Name: **Avery Landing**
Project Number: 073-93312-03
Project Manager: Doug Morell

Report Created:
10/28/09 13:08

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-05 (G-GA-D-082609)		Soil					Sampled: 08/26/09 15:15			H8
1-Methylnaphthalene	EPA 8270 mod.	ND	UJ	0.00449	mg/kg dry	1x	9090060	09/10/09 09:59	09/13/09 19:29	
2-Methylnaphthalene	"	ND	UJ	0.00449	"	"	"	"	"	
Acenaphthene	"	ND	UJ	0.00449	"	"	"	"	"	
Acenaphthylene	"	ND	UJ	0.00449	"	"	"	"	"	
Anthracene	"	0.00749	J	0.00449	"	"	"	"	"	
Benzo (a) anthracene	"	ND	UJ	0.00449	"	"	"	"	"	
Benzo (a) pyrene	"	ND	UJ	0.00449	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	UJ	0.00449	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	UJ	0.00449	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	UJ	0.00449	"	"	"	"	"	
Chrysene	"	0.00549	J	0.00449	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	UJ	0.00449	"	"	"	"	"	
Fluoranthene	"	ND	UJ	0.00449	"	"	"	"	"	
Fluorene	"	0.00599	J	0.00449	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	0.00449	J	0.00449	"	"	"	"	"	
Naphthalene	"	ND	UJ	0.00449	"	"	"	"	"	
Phenanthrene	"	ND	UJ	0.00449	"	"	"	"	"	
Pyrene	"	0.00649	J	0.00449	"	"	"	"	"	
Surrogate(s): Nitrobenzene-d5		58.6%		38.8 - 139 %	"					"
2-FBP		60.4%		40 - 132 %	"					"
p-Terphenyl-d14		104%		31.7 - 179 %	"					"

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Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Conventional Chemistry Parameters by APHA/EPA Methods

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-01 (G-GA1-21-082609)		Soil		Sampled: 08/26/09 15:15						
% Solids	TA SOP	89.0	—	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-03 (G-GA3-20-082608)		Soil		Sampled: 08/26/09 10:00						
% Solids	TA SOP	87.6	—	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-04 (GA-D2-082609)		Soil		Sampled: 08/26/09 10:00						
% Solids	TA SOP	88.6	—	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	
SSI0046-05 (G-GA-D-082609)		Soil		Sampled: 08/26/09 15:15						
% Solids	TA SOP	89.0	—	0.0100	% by Weight	1x	9090098	09/10/09 10:00	09/10/09 15:00	

TestAmerica Spokane

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Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08


Volatile Organic Compounds (GC/MS)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-02 (Trip Blank)		Other (S)					Sampled: 09/08/09 00:00			
Dichlorodifluoromethane	8260B STD	ND	8.0	40	ug/Kg	1x	50920	09/25/09 16:16	09/25/09 22:34	H
Chloromethane	"	ND	60	400	"	"	"	"	"	H
Vinyl chloride	"	ND	1.7	8.0	"	"	"	"	"	H
Bromomethane	"	ND	25	140	"	"	"	"	"	H
Chloroethane	"	ND	23	400	"	"	"	"	"	H
Trichlorofluoromethane	"	ND	5.0	40	"	"	"	"	"	H
1,1-Dichloroethene	"	ND	5.0	20	"	"	"	"	"	H
Methylene Chloride	"	ND	3.8	40	"	"	"	"	"	H
trans-1,2-Dichloroethene	"	ND	3.5	40	"	"	"	"	"	H
1,1-Dichloroethane	"	ND	3.8	40	"	"	"	"	"	H
2,2-Dichloropropane	"	ND	3.7	40	"	"	"	"	"	H
cis-1,2-Dichloroethene	"	ND	2.4	40	"	"	"	"	"	H
Chlorobromomethane	"	ND	12	40	"	"	"	"	"	H
Chloroform	"	ND	2.1	40	"	"	"	"	"	H
1,1,1-Trichloroethane	"	ND	5.0	40	"	"	"	"	"	H
Carbon tetrachloride	"	ND	3.7	20	"	"	"	"	"	H
1,1-Dichloropropene	"	ND	1.8	40	"	"	"	"	"	H
Benzene	"	ND	2.5	16	"	"	"	"	"	H
1,2-Dichloroethane	"	ND	2.2	40	"	"	"	"	"	H
Trichloroethene	"	ND	3.4	16	"	"	"	"	"	H
1,2-Dichloropropane	"	ND	3.9	12	"	"	"	"	"	H, *
Dibromomethane	"	ND	4.0	40	"	"	"	"	"	H
Dichlorobromomethane	"	ND	3.0	40	"	"	"	"	"	H
cis-1,3-Dichloropropene	"	ND	2.4	16	"	"	"	"	"	H
Toluene	"	ND	2.4	40	"	"	"	"	"	H
trans-1,3-Dichloropropene	"	ND	4.0	16	"	"	"	"	"	H
1,1,2-Trichloroethane	"	ND	1.8	12	"	"	"	"	"	H
Tetrachloroethene	"	ND	2.1	20	"	"	"	"	"	H
1,3-Dichloropropane	"	ND	5.0	40	"	"	"	"	"	H
Chlorodibromomethane	"	ND	8.0	40	"	"	"	"	"	H
Ethylene Dibromide	"	ND	3.2	40	"	"	"	"	"	H
Chlorobenzene	"	ND	2.3	40	"	"	"	"	"	H
Ethylbenzene	"	ND	3.7	40	"	"	"	"	"	H
1,1,1,2-Tetrachloroethane	"	ND	4.8	40	"	"	"	"	"	H
1,1,2,2-Tetrachloroethane	"	ND	3.3	10	"	"	"	"	"	H
m-Xylene & p-Xylene	"	ND	7.8	40	"	"	"	"	"	H
o-Xylene	"	ND	2.3	40	"	"	"	"	"	H
Styrene	"	ND	3.8	40	"	"	"	"	"	H

TestAmerica Spokane

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Randee Decker, Project Manager



Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Created:

10/28/09 13:08

Volatile Organic Compounds (GC/MS)

TestAmerica Tacoma

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSI0046-02 (Trip Blank)		Other (S)					Sampled: 09/08/09 00:00			
Bromoform	8260B STD	ND	11	40	ug/Kg	1x	50920	09/25/09 16:16	09/25/09 22:34	H
Isopropylbenzene	"	ND	1.8	40	"	"	"	"	"	H
Bromobenzene	"	ND	2.7	40	"	"	"	"	"	H
N-Propylbenzene	"	ND	2.8	40	"	"	"	"	"	H
1,2,3-Trichloropropane	"	ND	12	40	"	"	"	"	"	H
2-Chlorotoluene	"	ND	5.4	40	"	"	"	"	"	H
1,3,5-Trimethylbenzene	"	ND	4.2	40	"	"	"	"	"	H
4-Chlorotoluene	"	ND	13	40	"	"	"	"	"	H
tert-Butylbenzene	"	ND	3.2	40	"	"	"	"	"	H
1,2,4-Trimethylbenzene	"	ND	2.1	40	"	"	"	"	"	H
sec-Butylbenzene	"	ND	5.0	40	"	"	"	"	"	H
1,3-Dichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
4-Isopropyltoluene	"	ND	2.8	40	"	"	"	"	"	H
1,4-Dichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
n-Butylbenzene	"	ND	7.3	40	"	"	"	"	"	H
1,2-Dichlorobenzene	"	ND	2.6	40	"	"	"	"	"	H
1,2-Dibromo-3-Chloropropane	"	ND	66	200	"	"	"	"	"	H
1,2,4-Trichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
1,2,3-Trichlorobenzene	"	ND	5.0	40	"	"	"	"	"	H
Hexachlorobutadiene	"	ND	5.6	40	"	"	"	"	"	H
Naphthalene	"	ND	6.0	40	"	"	"	"	"	H
Surrogate(s):	Fluorobenzene (Surr)	102%			75 - 125 %	"			"	
	Toluene-d8 (Surr)	98%			85 - 115 %	"			"	
	Ethylbenzene-d10	102%			75 - 125 %	"			"	
	4-Bromofluorobenzene (Surr)	99%			85 - 120 %	"			"	
	Trifluorotoluene (Surr)	92%			75 - 125 %	"			"	



Golder Associates, Inc.

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 Redmond, WA 98077

Project Name: **Avery Landing**

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Date:

10/28/09 13:08

Laboratory Analysis Times Report

Semivolatile Petroleum Products by NWTPH-Dx (NWTPH-Dx)

TestAmerica Spokane

SSI0046

Lab Number	SampleName	Sampled	Extracted	DAYS	Analyzed
SSI0046-01	G-GA1-21-082609	08/26/09 15:15	09/10/09 14:30	15	09/13/09 18:59
SSI0046-03	G-GA3-20-082608	08/26/09 10:00	09/10/09 14:30	↓	09/16/09 20:59
SSI0046-04	GA-D2-082609	08/26/09 10:00	09/10/09 14:30		09/16/09 21:23
SSI0046-05	G-GA-D-082609	08/26/09 15:15	09/10/09 14:30		09/16/09 21:46

> 14 DAY
 Assoc results qual. J/mr.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Anchorage, AK 907.563.9200 Fax 907.563.9210
Portland, OR 503.906.9200 Fax 503.906.9210
Seattle, WA 425.420.9200 Fax 425.420.9210
Spokane, WA 509.924.9200 Fax 509.924.9290

Golder Associates, Inc.

18300 NE Union Hill Rd. Suite 200
Redmond, WA 98077

Project Name: Avery Landing

Project Number: 073-93312-03

Project Manager: Doug Morell

Report Date:

10/28/09 13:08

Laboratory Analysis Times Report

PCB's

Polychlorinated Biphenyls by EPA Method 8082 (EPA 8082)

TestAmerica Spokane

SSI0046

Lab Number	SampleName	Sampled	Extracted	DAYS	Analyzed
SSI0046-01	G-GA1-21-082609	08/26/09 15:15	09/21/09 14:51	26	09/24/09 09:18
SSI0046-03	G-GA3-20-082608	08/26/09 10:00	09/21/09 14:51	↓	09/24/09 09:41
SSI0046-04	GA-D2-082609	08/26/09 10:00	09/21/09 14:51	↓	09/24/09 10:03
SSI0046-05	G-GA-D-082609	08/26/09 15:15	09/21/09 14:51	↓	09/24/09 10:26



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Laboratory Analysis Times Report

PAHs

Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring (EPA 8270 mod.)

TestAmerica Spokane

SSI0046

Lab Number	SampleName	Sampled	Extracted	DAYS	Analyzed
SSI0046-01	G-GA1-21-082609	08/26/09 15:15	09/10/09 09:59	15	09/13/09 20:34
SSI0046-03	G-GA3-20-082608	08/26/09 10:00	09/10/09 09:59	↓	09/13/09 20:12
SSI0046-04	GA-D2-082609	08/26/09 10:00	09/10/09 09:59	↓	09/13/09 19:51
SSI0046-05	G-GA-D-082609	08/26/09 15:15	09/10/09 09:59	↓	09/13/09 19:29

>14 Dayz Assoc. results T/u.J.



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Laboratory Analysis Times Report

Conventional Chemistry Parameters by APHA/EPA Methods (TA SOP)

TestAmerica Spokane

SSI0046

Lab Number	SampleName	Sampled	Extracted	Analyzed
SSI0046-01	G-GA1-21-082609	08/26/09 15:15	09/10/09 10:00	09/10/09 15:00
SSI0046-03	G-GA3-20-082608	08/26/09 10:00	09/10/09 10:00	09/10/09 15:00
SSI0046-04	GA-D2-082609	08/26/09 10:00	09/10/09 10:00	09/10/09 15:00
SSI0046-05	G-GA-D-082609	08/26/09 15:15	09/10/09 10:00	09/10/09 15:00



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10/28/09 13:08

Laboratory Analysis Times Report

Volatile Organic Compounds (GC/MS) (8260B STD)

TestAmerica Tacoma

SSI0046

Lab Number	SampleName	Sampled	Extracted	<i>DAYS</i> Analyzed
SSI0046-02	Trip Blank	09/08/09 00:00	09/25/09 16:16	<i>17</i> 09/25/09 22:34

*> 14 preserved water.
 Results Qual 5ur.*

